

NAME

`ares_parse_soa_reply` – Parse a reply to a DNS query of type SOA

SYNOPSIS

```
#include <ares.h>
```

```
int ares_parse_soa_reply(const unsigned char* abuf, int alen,
                        struct ares_soa_reply** soa_out);
```

DESCRIPTION

The **`ares_parse_soa_reply`** function parses the response to a query of type SOA into a *struct ares_soa_reply*. The parameters *abuf* and *alen* give the contents of the response. The result is stored in allocated memory and a pointer to it stored into the variable pointed to by *soa_out*. It is the caller's responsibility to free the resulting *soa_out* structure when it is no longer needed using the function **`ares_free_data(3)`**.

The structure *ares_soa_reply* contains the following fields:

```
struct ares_soa_reply {
    char *nsname;
    char *hostmaster;
    unsigned int serial;
    unsigned int refresh;
    unsigned int retry;
    unsigned int expire;
    unsigned int minttl;
};
```

RETURN VALUES

`ares_parse_soa_reply` can return any of the following values:

ARES_SUCCESS

The response was successfully parsed.

ARES_EBADRESP

The response was malformed.

ARES_ENODATA

The response did not contain an answer to the query.

ARES_ENOMEM

Memory was exhausted.

AVAILABILITY

This function was first introduced in c-ares version 1.9.0.

SEE ALSO

`ares_query(3)` **`ares_free_data(3)`**